CONCEP' WETLAND 3 sections:

Assume: Pond is 3' deep 300' long, & 50' wide or 45,000 cu ft. Times 1q,728 cu in/cu ft = 77,760,000 cu in: or 242,243 gallons or 13 day retention time

Assume: no evoration Pond 1:1 water to volume Surface flow is 1:1 Sub surface flow is 40% voids

Pond 40' X 40' X 2' = 3,200 cu ft or 17,226 gallons or 2 day retention time for 8,750 gpd

Surface flow: 40 x 40 x 2 or 3,200 cu ft = 17,226 gallons

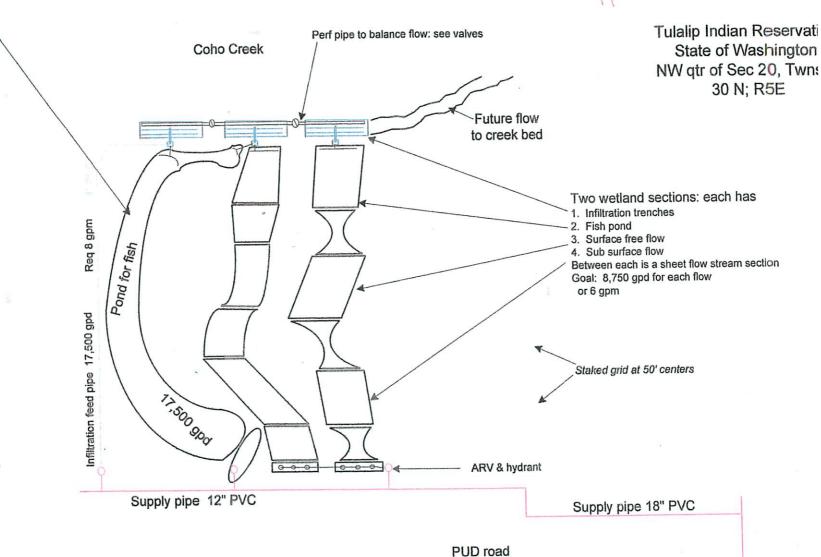
Sub surface flow: $40' \times 40' \times 2' = 3,200$ cu ft. 40% voids = 6,890 callons or 9.45 hr retention time

Pond 17,226 gal Surface 17,226 gal Sub surf 6,890 gal Total 41,342 gal or 2.36 days retention time

OPERATIONAL METHOD:

- Vol of water to wetland takes precedence: adjust vol to maximize goals
- Fish pond steady volume to keep ox level and flow: let plants grow by natural selection: ox and flow drive

 program
- Use infiltration as overflow and to balaroe other pond and wetland
- Attast retention times as study dictates



MBR plant